First & Final Bill

M. A. R. 57 (Rule 116)
Measurement Book

JOB CODE: 009-17-000035

No. B

Head of A/c: P1771 Est: 25.00 lakh

431401

Serial No. .....

Name of Work ..... From ..... To .....

Improvements to Roads and drains from Thindle circle to 2nd cross Bullet Krishnappa Layout in ward no: 9, Vidhyaranyapura

Name of Contractor or nature of Agency .....

Date of commencement of work ..... Sri. Narasimharaju. K.

EE/BTP/BBMP/E-PMTT WO/110/2017-18. Dated: 17.03.2018.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Earth work excavation for Road drains and similar works by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m excavated surface levelled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						
	∴ The total Qty of Earth work excavation Recorded in Premeasurement in this MB, Vide page no: 494480 to 494481 as 410.13 m³						
	∴ This Qty is limited to as per Schedule 'B' Qty as 373.80 m² @ Rate Rs 191.58/m³						71613-

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	Removing and refixing stone slabs of drains and pointing in cm (1:3). This Qty is recorded in Premeasurements in this MB, Vide page no: 494481/2 as 891.00 m² ∴ This Qty is limited to as per Schedule 'B' Qty as 796.5 @ Rate Rs 74.36/m²						59228-
(13)	Providing and laying in position plain cement concrete of mi This Qty is Recorded in Premeasurements in this MB, Vide pge no: 494482 to 482 1/2 as		78.95			m3	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

494402

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	But therefore This Qty is limited to as per Schedule 'B' Qty as 19.69+5 = 78.75 m³ . @ Rate for 1) 19.69 m³ = ₹4957.8/m³ 2) For 59.06 m³ = ₹ 4957.8						29282 97619
4)	Providing and removing centering & shuttering, & striking propping etc and removal of form work for Vertical Surface such as walls at any thickn including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.						
	∴ This Qty is Recorded in premeasurements in this MB, Vide P no: 494482, this 63.0 m², @ Rate Rs 298.45/m²						18802

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(5)	cement concrete pavement construction of unreinforced plain cement concrete pavement thickness as per design over a prepared sub base with OPC cement or any other type as per clause 1051.202 design mix M_{20}/M_{30} with 25 mm and down size graded granite metal coarse aggregates and fine aggregates with Superplasticiser @ 3 lts conforming to IS 9103-1999 Reaffirmed 2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design laid in approved fixed side form work (Steel channel, laying and fixing of 125 micron thick polythene film wedges steel plates including levelling the form work for drawing) & spreading the concrete with shovels, rakers compacted using needle screed and plate Vibrator and finished in a continuous operation including provision of contra expansion construction and Longitudinal joints including groove cutti						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

494403

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Charges Joint filler & separation membrane Sealant primer, Joint Sealant admixture as approved curing compound, finishing to lines and grades as per drawing complete as per specifications M_{20}						
	{Cement concrete Road.1	1×1	28.0	$\frac{4.7+3.7}{2}$	0.125	14.70	M^3
		1×1	30.0	$\frac{3.7+5.8}{2}$	0.125	17.810	-11-
	Road.2	1×1	17.0	$\frac{5.6+5.8}{2}$	0.125	11.90	-11-
		1×1	30.0	$\frac{5.6+5.8}{2}$	0.125	21.38	-11-
					Total :	65.79	M^3

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	This Qty is limited to as per schedule 'B' Qty as 65.63 m³ @ Rate Rs 5293.97/m³						34744
	Vaccum De-watering with Vaccum pump and suction mat and comp with skin floater clubbed with flooting disc including cost of Generator hom of machinery screed Vibratory power floater, blad and disc etc, with all lead and lift.						
	Road.1	1x1	28.0	$\frac{4.7+3.7}{2}$	–	117.60	m²
		1x1	30.0	$\frac{3.7+5.3}{2}$	–	142.50	m²

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

494404

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Road.2	1×1	17.0	$\frac{5.6+5.6}{2}$	–	95.20	m^2
		1×1	30.0	$\frac{5.6+5.6}{2}$	–	171.00	m^2
					Total:	526.30	m^2
	∴ This Qty is limited to as per Schedule 'B' Qty as 446.25+78.75 = 525.0 m^2, @ Rates ① For 446.25 m^2 = 91.30/m^2 @ For 78.75 m^2 = 91.66/m^2						40743 = 7220
⑦	Scarifying Kankar/gravel/metal crust Up to 150 mm thick with pick axes						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and disposal of stuff including cost of all labour charges complete as per specifications.						
	This Qty is recorded in premeasurements in this MB, Vide page no: 494483½ to 494484 as 2215.0 m^2						
	But ∴ This Qty is limited to as per Schedule 'B' Qty as 1615.00 @ Rate Rs 25.46/m^2						
(8)	Wet mix macadam, providing, laying, spreading and compacting crushed stone aggregates of granite/trap/Basalt to wet mix macadam						

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M. A. R. 57 (Rule 116)

Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

494409

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	∴ This Qty is limited to as per Schedule 'B' Qty as 94.40 m³ @ Rate Rs 6986.98 / m³						659571/-
(11)	Providing and laying Semi dense Bituminous Concrete Using Crushed aggregates of specified grading, premixed with Bituminous binder and filler, transporting the hot mix to work site, laying with a Paver finisher to the required grade, level and alignment rolling with Smooth wheeled, Vibratory and tandem rollers to achieve the desired compretion as						

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Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents		*Reference to Sl. No. of Measurement Book
1	2	3	4	5	6	7		8
	MORTH Specification clause No 505 complete in all respects as per specifications Using 40/60 TPH capacity HMP with Mechanical Paver Gr-II (25mm to 30mm) with 5% VG-10 Bitumen							
	Potholes filling Areas.	2×1	6.00	2.50	0.03	0.90	m^3	
		2×1	4.50	3.50	0.03	0.95	m^3	
		2×1	6.25	1.25	0.03	0.47	-11-	
		2×1	4.15	3.25	0.03	0.81	-11-	
		2×1	6.15	4.25	0.03	1.57	-11-	
		2×1	3.15	1.65	0.03	0.31	-11-	
		2×1	5.15	4.00	0.03	1.24	-11-	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

rial No. .....

me of Work ..... From..... To.....

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le	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
		2×1	5.15	2.15	0.03	0.41	m^3
		2×1	5.0	1.75	0.03	0.53	-11-
		2×1	6.45	1.85	0.03	0.72	-11-
		2×1	5.00	3.15	0.03	1.03	-11-
		2×1	6.15	4.25	0.03	1.57	-11-
		2×1	5.15	1.65	0.03	0.51	-11-
		2×1	5.15	4.00	0.03	1.24	-11-
		2×1	5.15	2.15	0.03	0.41	-11-
		2×1	2.15	1.75	0.03	0.23	-11-
		2×1	6.45	1.85	0.03	0.72	-11-

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Date	Full description, etc, of work	Dimensions				Contents	*Reference to Page No. of Measurement Book
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
		2×1	6.15	4.25	0.03	1.57	m³
		2×1	3.15	1.65	0.03	0.31	-11-
		2×1	5.15	4.00	0.03	1.24	-11-
		2×1	3.15	2.15	0.03	0.41	-11-
		2×1	5.00	1.75	0.03	0.53	-11-
		2×1	6.45	1.85	0.03	0.72	-11-
					Total	18.14	m³
	ATR marked						
	∴ This Qty is limited to as per Schedule 'B' Qty as @ Rate Rs 6194.47 /m³						17.88 m³

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

494411

erial No. .....

ame of Work ..... From..... To.....

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			ABSTRACT				
			MB Pages				
SL No	Items	Unit	Foom	To	Qty	Rate	Amount in ₹
1)	Earth work Excavation	m^3			373.80	191.58	71613=00
2)	R & R. Stone slabs	m^2			796.50	74.36	59237=00
3)	Pcc 1:4:8	m^3			19.69	4957.80	97629=00
	Qty above 125 %				59.06	4957.82	292800=00
					38.38		

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
4)	Providing & Removing Centering	m^2			39.38	298.45	11753
					63.0	298.45	18802
	Qty above 125%	–			23.63	298.47	7053
5)	M_{20}	m^3			65.63	5293.97	34744
6)	Vaccum Dewatering	m^2			446.25	91.30	40743
	Qty above 125%	–			78.75	91.68	7220
7)	Scarifying	m^2			1615.0	25.46	41118
8)	WMM	m^3			323.0	1699.00	548771
9)	Primer coat	m^2			3075.0	26.48	659508 814003

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 491412

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	BC	m3			94.40	6986.80	659500=00
(11)	SDBC	m3			17.88	6194.47	110758=00
						Total:	2377000=00 23,77,020=00
	(Rupees Twenty three lakhs seventy seven thousand only)						
	Certificate: 1) The contractor has done the work satisfactorily. 2) The contractor has removed the debris from the work sp						
	19/7/2018						9/7

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to Measurement No
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
			l = 58 m		l = 47 m		
			l = 183.0 m				3rd cross Road
							1st main Road
			l = 232.0 m				

Kiran
AE-9
19/07/2018

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

491413

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						Total Rs. 23,77,020-00	
		23,77,020-00					
		76675-00				IT - 23770-00	
		23,00,345-00				Cess - 23770-00	
						CBF - 2377-00	
						LR - 24958-00	
						Fire. 1800-00	
						Addn. 76675-00	
						Cheque: 23,00,345-00	

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